

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A tubeless tire wherein an air chamber is formed between an inner face of a tire body and a rim thereof, by mounting said tire body to the periphery of said rim; and
a gas barrier layer comprising formed of a gas barrier resin composition containing which contains an inorganic layered compound having a particle size of at most 5 μm and an aspect ratio of 50 to 5000 and a resin, is formed on said inner face of said tire body, wherein said resin is at least one resin selected from the group consisting of polyvinyl alcohol and modified substances thereof, ethylene-vinyl alcohol copolymer and modified substances thereof, polysaccharide, polyacrylic acid and esters thereof, sodium polyacrylate, polybenzene sulfonic acid, polybenzene sodium sulfonate, polystyrene sulfonic acid, polystyrene sodium sulfonate, polyethylene imine, polyallyl amine and ammonium salts thereof, polyvinyl thiol, and polyglycerin.

2. (Currently Amended) The tubeless tire of Claim 1, wherein said ~~gas barrier layer comprising a gas barrier resin composition;~~ contains an inorganic layered compound having a particle size of at most 5 μm and an aspect ratio of 200 to 3000 and said resin, and said gas barrier layer is laminated as a coating film.

3. (Previously Presented) The tubeless tire of Claim 2, wherein the content of said inorganic layered compound in said gas barrier resin composition is 3 to 70 % at a weight ratio of the total weight of said inorganic layered compound and said resin.

4. (Previously Presented) The tubeless tire of Claim 2, wherein said resin is polyvinyl alcohol.

5. (Previously Presented) The tubeless tire of Claim 1, further comprising an inner liner layer disposed between said gas barrier layer and said tire body;
wherein said inner liner layer comprises a rubber composition containing as rubber components, 60 to 100 % by weight of at least one kind of butyl rubber selected from the group consisting of butyl rubber, halogenated butyl rubber and a halogenated copolymer of isomonoolefin having 4 to 7 carbon atoms and paraalkylstyrene, and 0 to 40 % by weight of at least one kind of diene rubber selected from the group consisting of natural rubber, isoprene rubber, styrene-butadiene rubber, butadiene rubber and styrene-isoprene-butadiene rubber.

6. (Original) The tubeless tire of Claim 5, wherein said gas barrier layer is formed on said inner face of said inner liner layer via an anchor coat layer.

7. (Previously Presented) The tubeless tire of Claim 5, wherein said inner liner layer comprises a rubber composition comprising:
an inorganic layered compound having a particle size of at most 5 μm and an aspect ratio of 50 to 5000, which is dispersed in said rubber component;
an inorganic filler represented by $n\text{M}\cdot x\text{SiO}_y\cdot z\text{H}_2\text{O}$, wherein n represents an integer of 1 to 5, M represents at least one metal selected from Al, Mg, Ti and Ca, or metal oxide, metal hydroxide or metal carbonate thereof, x represents an integer of 0 to 10, y represents an integer of 2 to 5 and z represents an integer of 0 to 10; and
a silane coupling agent.

8. (Currently Amended) The tubeless tire of Claim 1 comprising said gas barrier layer on the inner face of said tire body,
wherein said tire body includes a carcass layer which comprises formed of a rubber composition wherein comprising an inorganic layered compound having a particle size of at most 5 μm and an aspect ratio of 50 to 5000, ~~which is dispersed in said a rubber component;~~

an inorganic filler represented by $nM \cdot xSiO_y \cdot zH_2O$, wherein represents an integer of 1 to 5, M represents at least one metal selected from Al, Mg, Ti and Ca, or metal oxide, metal hydroxide or metal carbonate thereof, x represents an integer of 0 to 10, y represents an integer of 2 to 5 and z represents an integer of 0 to 10; and
a silane coupling agent.

9. (Original) The tubeless tire of Claim 5, wherein said inorganic layered compound is a clay mineral having swellability, that is swelled and cleaved in a solvent, and said resin is a high hydrogen bond resin comprising polyvinyl alcohol or polysaccharide; and in said gas barrier layer, said inorganic layered compound and said resin are mixed in a volume ratio of 5/95 to 90/10.

10. (Original) The tubeless tire of Claim 5 or 8, wherein said gas barrier layer is obtained by dispersing said inorganic layered compound in said resin or a resin solution in a state of being swelled or cleaved in a solvent, applying said solution to the inner face side of said inner liner layer while maintaining said state, and removing said solvent.

11. (Original) The tubeless tire of Claim 10, wherein said gas barrier layer has a thickness of at most 0.5 mm.

12. (Original) The tubeless tire of Claim 7, wherein the content of said inorganic filler is at least 10 parts by weight based on 100 parts by weight of said rubber component.

13. (Original) The tubeless tire of Claim 7, wherein the content of said inorganic layered compound included in said rubber composition is 0.5 to 20 parts by weight based on 100 parts by weight of said rubber component.

14. (Original) The tubeless tire of Claim 7 or 8, wherein said inorganic layered compound included in said rubber composition is organically treated.

15. (Original) The tubeless tire of Claim 8, which has no inner liner.

16. (Previously Presented) The tubeless tire of Claim 1, wherein said resin is at least one member selected from the group consisting of resins formed from polyvinyl alcohol, ethylene-vinyl alcohol copolymer, hydroxymethyl cellulose, hydroxyethyl cellulose, carboxymethyl cellulose, amylose, amylopectin, pullulan, curdlan, xanthan, chitin, chitosan, cellulose, polyacrylic acid and esters thereof, sodium polyacrylate, polybenzene sulfonic acid, polybenzene sodium sulfonate, polystyrene sulfonic acid, polystyrene sodium sulfonate, polyethylene imine, polyallyl amine and ammonium salts thereof, polyvinyl thiol, and polyglycerin.

17. (Previously Presented) The tubeless tire of Claim 16, further comprising an inner liner layer disposed between said gas barrier layer and said tire body, wherein said inner liner layer comprises a rubber composition containing as rubber components,

60 to 100 % by weight of at least one kind of butyl rubber selected from the group consisting of butyl rubber, halogenated butyl rubber and a halogenated copolymer of isomonoolefin having 4 to 7 carbon atoms and paraalkylstyrene; and

0 to 40 % by weight of at least one kind of diene rubber selected from the group consisting of natural rubber, isoprene rubber, styrene-butadiene rubber, butadiene rubber and styrene-isoprene-butadiene rubber; and

said the rubber composition of said inner liner layer further comprises

an inorganic layered compound having a particle size of at most 5 μm and an aspect ratio of 50 to 5000, which is dispersed in said rubber component;

an inorganic filler represented by $n\text{M}\cdot x\text{SiO}_y\cdot z\text{H}_2\text{O}$, wherein n represents an integer of 1 to 5, M represents at least one metal selected from Al, Mg, Ti and Ca, or metal oxide, metal

hydroxide or metal carbonate thereof, x represents an integer of 0 to 10, y represents an integer of 2 to 5 and z represents an integer of 0 to 10; and

a silane coupling agent.

18. (Currently Amended) The tubeless tire of Claim 17, wherein said inorganic layered compound in said gas barrier resin composition and said inner liner layer is a clay mineral having swellability, that is swelled and cleaved in a solvent, and

said resin is a high hydrogen bond resin comprising polyvinyl alcohol, hydroxymethyl cellulose, hydroxyethyl cellulose, carboxymethyl cellulose, amylose, amylopectin, pullulan, curdlan, xanthan, chitin, chitosan, or cellulose; and

in said gas barrier layer, said inorganic layered compound and said resin are mixed in a volume ratio of 5/95 to 90/10.